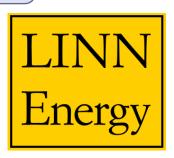


By OCD; Dr. Oberding at 12:49 pm, Apr 08, 2015



Linn Energy, Government N #002 Battery

CLOSURE REPORT

API No. 30-025-23122

1RP-3551

Unit Letter N, Section 19, Township 20 South, Range 34 East

APPROVED

By OCD; Dr. Oberding at 1:06 pm, Apr 08, 2015

March 26, 2015

Prepared by:

Environmental Department Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 Phone: (575)964-8394

Fax: (575)393-8396

Table of Contents

- 1 Introduction
- 2 Site Activities
- 3 Conclusion

APPENDICES

Appendix I – Initial Form C-141

Appendix II – Site Photographs

Appendix III – Site Diagram

Appendix IV – Laboratory Analyses

Appendix V – Final C-141

Government N #002 Battery

1 Introduction

Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located south of Maljamar, NM, in Lea County. The leak site resulted from the dumps not operating on the heater. A C-141 (Appendix I) was submitted to the NMOCD on March 02, 2015.

2 SITE ACTIVITIES

On March 05, 2015 DFSI personnel delineated vertically in the leak area. Field samples were taken on three sample points, each sample was tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples were taken to Cardinal Labs of Hobbs to obtain confirmation samples. The results are attached (Appendix V).

On March 23, 2015, DFSI personnel returned to the site to start excavation. The impacted soil at sample point (SP) 1 was removed to 2' below ground surface; SP2 was removed to 1'bgs and SP3 was removed to 3'bgs. All contaminated soil was hauled to a BLM/NMOCD approved facility.

DFSI personnel returned to the site on March 24, 2015, to backfill the excavated area with fresh caliche. The area was also compacted and returned to its normal state. Photographs are attached (Appendix II).

3 Conclusion

According to the U.S. Geological Survey and the NM Office of the State Engineer, there were no records of groundwater in the immediate vicinity, however depth to groundwater in the area averages greater than 240'bgs indicating no potential threat to groundwater or life forms.

Appendix I

INITIAL FORM C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Santa Fe, NM 87505														
Release Notification and Corrective Action														
	OPERATOR Initial Report Final Report													
Name of Co	mpany Linn	Operatir	ıg Inc.	•		Contact E.L. Gonzales								
	130 W Bender			√1 882 40		Telephone No. 575-738-1739								
Facility Nar	ne Governme	nt N #002	2 Batter	у		Facility Typ	e Battery							
Surface Ow	ner Federal			Mineral C)wner				API No	. 30-025-	23122			
				LOCA'	TION	OF REL	EASE		· ·					
Unit Letter	Section To	wnship	Range	Feet from the		1/South Line	Feet from the	East/W	est Line	County				
N	19	208	34E	590		South	1913	W	West Lea					
	Latitude 32.552971798298 Longitude -103.601948239229													
/T CD-1-	Type of Release Oil Volume of Release 15 bbls Volume Recovered 13 bbls											1		
Type of Rele	ase Oil lease Heater	• .					Release 15 bbls four of Occurrence		Date and					
						02/28/201	5		02/28/201			, 		
Was Immedia	ate Notice Giver		Yes 🗆	No 🗌 Not Re	equired	If YES, To Aaron Hiel					•			
By Whom?	······································				- quii cu	Date and Hour								
	course Reached	?				If YES, Volume Impacting the Watercourse.								
			Yes 🛚	No										
If a Watercou	ırse was Impacte	ed, Descri	be Fully.*	*										
				n Taken.* Arriv										
				of line at that time ater. Pressure dro				bom aur	nps were n	ot operau	ng. 1 oj	bened the		
		p	011 011 110		PP		, ps.,							
Describe Are	a Affected and (Cleanup A	ction Tak	ten.* Oil was in	firewa	ıll at battery. H	Had vac truck sucl	k up anv	standing fl	uid and re	turn to	tank.		
		•				,								
I hereby certi	fy that the inform	mation giv	ven above	is true and comp	lete to	the best of my	knowledge and u	nderstan	d that purs	uant to NI	MOCD	rules and		
regulations al	ll operators are r	equired to	report ar	ıd/or file certain r	elease :	notifications a	nd perform correc	ctive action	ons for rele	eases whic	h may e	endanger		
				e of a C-141 repo										
				investigate and r										
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.														
OIL CONSERVATION DIVISION														
Signature:	Signature													
Approved by Environmental Specialist:														
Printed Name: E.L. Gonzales														
Title: Produ	ction Supervisor	r				Approval Dat	e:	E	Expiration 1	Date:				
E-mail Addre	Conditions of	Conditions of Approval:				. —								
				1 0002			4.1			Attache	a [
Date: 03/02	/ZU13	Pnone:	: 505-504	F-8UUZ			•					}		

^{*} Attach Additional Sheets If Necessary

Guidelines for Industry Safe forms: - Follow notes in column C

Yellow fields are required

Attach this form as a .xlsx attachment when entering into Industry Safe

Additional Information Was an employee or directly supervised contractor injured? no Was a Non-Employee injured? no Estimated Cleanup / Lost Product Cost Identify Emergency Responders
Was a drug or alcohol test performed? Substance 2 Recovered (Barrels) Substance 1 Recovered (Barrels) Substance 2 Volume (Barrels) Substance 1 Volume (Barrels) Estimated Property Damage Was a Vehicle Involved? no Agency Report Required yes Description of incident arriving at location at 10:30, I noticed that oil had spilled out of gas line and onto Substance 2 Released Substance 1 Released Agency Reporting Log Lease Operator Name Kyle Norton Clean Up Description Witness Information Equipment Type Heater
Specific Cause Act of God
Weather Conditions cold with temperature in the upper 20's Spill/Release Type Land Inside Containment YES Reported to: Name | Aaron Hickert Property Damage? no Supervisor's Name Bob Akin Specific Location NMNM0550543 Supervisor's Title Foreman Time of Incident Date of Incident Date Reported Incident Type | Spill / Release Slick Present no Department Production Longitude Latitude Region State Area Hobbs crude oil Linn Energy Oil was in firewall at battery. Had vac truck suck up any standing fluid and return to Government N #2 BTRY, SE4 SW4 SEC.19-T20S-R34E, LEA COUNTY, NM New Mexico Houston kimray 1/2 turn to try and release pressure on heater, pressure dropped down to pressure of heater was 30psi and both dumps were not operating. I opened the ground and a little on tank . There was only gas coming out of line at that time. The 2/28/2015 2/28/2015 10:30 AM if time is unknown, enter time incident was discovered ž ž Y/N - select Y only if spill exceeds reportable quantity; otherwise select N X, select from drap-down select from drop-down select from drop-down Y/N - if Y, complete Non-Employee Injury tab Y/N - if Y, complete Employee Injury tab select from drap-down enter facility name or specific directions Select a name from EH&S Y/N - if Y, complete Vehicle involved tab select from drop-down select from drop-down select from drop-down select from drop-down select from drop-down

[end of form]

Appendix II

SITE PHOTOS

Linn Energy, Government N #002 Battery

Unit Letter N, Section 19, T20S R34



Sign marking location 10/26/13



Spill location with sample point



Spill Location with sample point



Excavating spill area



Excavating spill area



Excavated area





Excavated Area



Backfilled area, closure pic



Backfilled area, closure pic

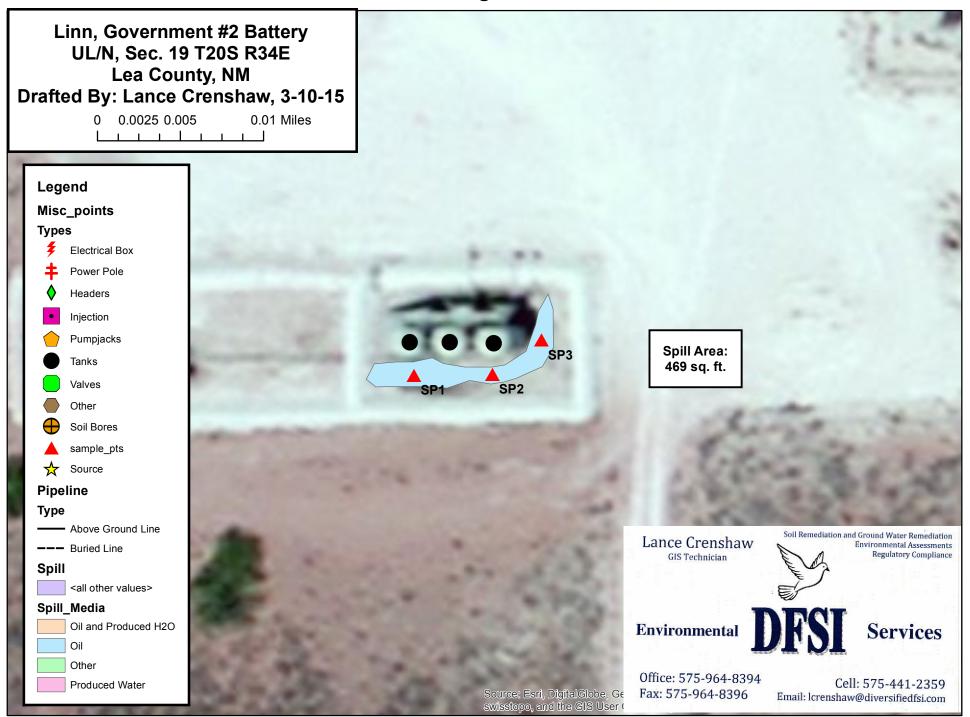


Backfilled area, closure pic

Appendix III

SITE MAP

Site Diagram



Appendix IV

LABORATORY ANALYSES



March 10, 2015

BOB AKEN

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: GOVERNMENT N #2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/05/15 13:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

LINN ENERGY BOB AKEN RR1, BOX 24 B

KINGFISHER OK, 73750 Fax To: (405) 375-6693

Received: 03/05/2015 Sampling Date: 03/05/2015

Reported: 03/10/2015 Sampling Type: Soil

Project Name: GOVERNMENT N #2 BATTERY Sampling Condition: ** (See Notes)
Project Number: NOT GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: SP1 @ 4' (H500613-01)

BTEX 8021B	mg/	kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2015	ND	1.96	97.8	2.00	10.5	
Toluene*	< 0.050	0.050	03/09/2015	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	03/09/2015	ND	2.09	105	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/09/2015	ND	5.64	94.0	6.00	9.81	
Total BTEX	<0.300	0.300	03/09/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	61-154	!						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2015	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2015	ND	188	94.0	200	1.83	
DRO >C10-C28	<10.0	10.0	03/06/2015	ND	196	98.2	200	1.27	
Surrogate: 1-Chlorooctane	85.2 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.2	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreine



Analytical Results For:

LINN ENERGY BOB AKEN RR1, BOX 24 B

KINGFISHER OK, 73750 Fax To: (405) 375-6693

Received: 03/05/2015 Sampling Date: 03/05/2015

Reported: 03/10/2015 Sampling Type: Soil

Project Name: GOVERNMENT N #2 BATTERY Sampling Condition: ** (See Notes)
Project Number: NOT GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: SP2 @ 4' (H500613-02)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2015	ND	1.96	97.8	2.00	10.5	
Toluene*	<0.050	0.050	03/09/2015	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050	0.050	03/09/2015	ND	2.09	105	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/09/2015	ND	5.64	94.0	6.00	9.81	
Total BTEX	<0.300	0.300	03/09/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	61-154	!						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2015	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2015	ND	188	94.0	200	1.83	
DRO >C10-C28	<10.0	10.0	03/06/2015	ND	196	98.2	200	1.27	
Surrogate: 1-Chlorooctane	82.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	90.0	% 52.1-17	6						

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Celey D. Keine



Analytical Results For:

LINN ENERGY BOB AKEN RR1, BOX 24 B

KINGFISHER OK, 73750 Fax To: (405) 375-6693

Received: 03/05/2015 Sampling Date: 03/05/2015

Reported: 03/10/2015 Sampling Type: Soil

Project Name: GOVERNMENT N #2 BATTERY Sampling Condition: ** (See Notes)
Project Number: NOT GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: SP3 @ 5' (H500613-03)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/09/2015	ND	1.96	97.8	2.00	10.5	
Toluene*	<0.050	0.050	03/09/2015	ND	1.84	91.9	2.00	6.52	
Ethylbenzene*	<0.050 0.050		03/09/2015	ND	2.09	105	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/09/2015	ND	5.64	94.0	6.00	9.81	
Total BTEX	<0.300	0.300	03/09/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	61-154	!						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2015	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/06/2015	ND	188	94.0	200	1.83	
DRO >C10-C28	<10.0	10.0	03/06/2015	ND	196	98.2	200	1.27	
Surrogate: 1-Chlorooctane	85.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.2	% 52.1-17	6						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Address: Address: City: State: State: Fax #: Project Name: Project Name: Project Name: Project Manager: State: Company: L'nw Enclose Attn: Rob MKCM Company: L'nw Enclose Address: Address: City: State: State: Zip:
City:
State:
and the second s
Project Location: BOXENNMENT N#2 Southery Phone #:
Sampler Name: Then Love Fax #:
FOR LAB USE ONLY MATRIX PRESERV SAMPLING
S ER
DGE ER. D/BASE COOL
C GR WA SOI OIL SLU OTH DATE TIME
0 51.164, x x 1.18 51-52 x x x 1.18 x x x x
77004
3 1 × × 35.5 11:05 × × ×

Sample Condition
Cool Intact
Yes Yes
Ves No

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Relinquished By:

Time:

Phone Result:
Fax Result:
REMARKS:

□ Yes

No No

Add'l Phone #: Add'l Fax #:

brought directly to lab.

Time:

Relinquished By:

Appendix V

FINAL C-141

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141

Revised August 8, 2011

Release Notification and Corrective Action														
						OPERAT			Initial	Report	\boxtimes	Final Report		
		Linn Operati		1.00240		Contact E.L. Gonzales								
		nder Blvd H				Telephone No. 575-738-1739								
racility Nai			2 Danier	<u>, </u>		Facility Type Battery								
Surface Ow	ner Fede	ral				API No	. 30-025-	23122						
						OF REL		ı	Vest Line					
Unit Letter N	Unit Letter Section Township Range Section 19 20S 34E Feet from the 590 North.						Feet from the 1913	County	County Lea					
Latitude 32.552971798298 Longitude -103.601948239229 NATURE OF RELEASE														
Type of Rele	ase Oil			MAIC			Release 15 bbls		Volume R	Recovered	13 b	bls		
Source of Re		ter				Date and H 02/28/201	Iour of Occurrenc	e		Hour of D		У		
Was Immedia	ate Notice C		Yes	No Not Re	equirec	If YES, To								
By Whom?						Date and Hour								
Was a Water	course Reac	hed?	Yes 🗵	No		If YES, Vo	olume Impacting t	he Wate	ercourse.					
If a Watercou	ırse was Im	pacted, Descri	ibe Fully.*	:										
a little on tan	k. There wa	s only gas co	ming out o		. The p	ressure of hea	30, I noticed that ter was 30psi and 2 psi.							
Describe Area Affected and Cleanup Action Taken.* Oil was in firewall at battery. Had vac truck suck up any standing fluid and return to tank. On March 05, 2015 DFSI personnel delineated vertically in the leak area. Field samples were taken on three sample points, each sample was tested chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples were taken to Cardinal Labs of Hobbs to obtain confirmation samples. The results are attached (Appendix V). On March 23, 2015, DFSI personnel to the site to start excavation. The impacted soil at sample point (SP) 1 was removed to 2' below ground surface; SP2 was removed to 1'bgs SP3 was removed to 3'bgs. All contaminated soil was hauled to a BLM/NMOCD approved facility. DFSI personnel returned to the site on March 24, 2015, to backfill the excavated area with fresh caliche. The area was also compacted and returned to its normal state. Photographs are attached (Appendix Photographs and Photographs									OFSI personnel to 1'bgs and March 24,					
regulations all public health should their of or the environ	I operators or the envir operations h nment. In a	are required to ronment. The ave failed to a	o report an acceptance	d/or file certain r e of a C-141 repo investigate and r	elease ort by ti emedia	notifications a he NMOCD mate contaminati	knowledge and und perform correctarked as "Final Roon that pose a three the operator of the street the stree	tive act eport" d eat to gr	ions for rele loes not reli ound water	eases which eve the op , surface w	h may o erator o vater, h	endanger of liability uman health		
Signature:							OIL CONSERVATION DIVISION							
Printed Name: E.L. Gonzales							Approved by Environmental Specialist:							
Title: Produ	ction Super	visor				Approval Da	te:		Expiration 1	Date:				
E-mail Addre		ales@linnener	egy.com	8002		Conditions of Approval: Attached								

^{*} Attach Additional Sheets If Necessary